August 23, 2019

Mr. Devlin Piplic
Director of Facilities
Monroe School District
200 East Fremont
Monroe, WA 98272

**RE: 2019 Annual PCB Wipe Testing**
**Sky Valley Educational Center**
**351 Short Columbia Street**
**Monroe, Washington**

Dear Mr. Piplic:

PBS Engineering and Environmental, Inc. (PBS) performed Polychlorinated Biphenyl (PCB) surface testing for the annual monitoring program at the Sky Valley Educational Center (SVEC) located at 351 Short Columbia Street, Monroe, Washington. The following report discusses background information, methodology, findings and conclusions.

## BACKGROUND INFORMATION

PCB-containing caulking and contaminated light fixture abatement activities were performed at the Sky Valley Educational Center (SVEC) in the Administration, Annex, Gymnasium, Classroom Pod/Library, and the Technology buildings during summer 2016.

PBS was requested to conduct annual surface sampling for PCBs in accordance with the SVEC, March 27, 2017 Quality Assurance Project Plan (QAPP) to evaluate the effectiveness of the abatement process.

## METHODOLOGY

The following is a description of the surface sample collection and analysis process. The Monroe School District provided PBS with drawings that identified specific locations to be sampled. See attached sample location diagrams.

PBS collected surface samples in twelve (12) interior locations within the study area. The 2019 annual PCB surface sampling was performed using the wipe sampling method in 40 CFR Part 761. This method uses a gauze pad wetted with hexane and placed in a glass jar. The sample media was provided by ALS Laboratories. The hexane wetted gauze pad is wiped over a 100 $cm^2$ area using a disposable template as a guide and then placed in a glass jar. PBS personnel wore disposable nitrile gloves to protect against cross-contamination between samples. A total of two (2) field blanks were collected during this activity. The wipe samples were collected to evaluate the effectiveness of the epoxy sealant. The samples were labeled with unique identification numbers, packaged and delivered with chain-of-custody documentation to ALS Laboratories. The samples were analyzed by EPA Method SW 8082 for PCBs. See attached laboratory report.

The EPA regulatory threshold for PCBs in surface wipes is 10 micrograms (µg) per 100 $cm^2$.

**FINDINGS**

The following is a summary of our laboratory findings for the surface sampling activity.

Laboratory results revealed all twelve (12) surface wipe samples collected during this annual monitoring event were **below** the EPA threshold of 10 µg/100 $cm^2$, see Table 1.

**Table 1 – Wipe Sampling Results**

| Sample Number | Location | PCB Results (µg/100 $cm^2$) |
|---|---|---|
| W-01-2019 | Annex building – Room E - South window, right-lower brick/metal transition | 0.47 |
| W-02-2019 | Annex building – Room F - North window, right-middle brick/metal transition | 0.30 |
| W-03-2019 | Gym building – CTE - Northwest window, upper-right brick/metal transition | 3.3 |
| W-04-2019 | Gym building – Gathering place – Center window of Southeast bay, top-horizontal brick/metal transition | ND |
| W-05-2019 | North Pod – Room 19 - West window, lower-horizontal brick/metal transition | ND |
| W-06-2019 | North Pod – Room 16 - North window, lower-left corner brick/metal transition | 0.21 |
| W-07-2019 | East Pod – Room 13 - North window, lower-left corner brick/metal transition | 0.29 |
| W-08-2019 | East Pod – Room 9 - South window, right vertical center brick/metal transition | 0.16 |
| W-09-2019 | South Pod – Room 6 - East window, left vertical center brick/metal transition | 1.0 |
| W-10-2019 | South Pod – Room 2 - West window, right upper corner brick/metal transition | 0.64 |
| W-11-2019 | Admin building – Staff room, Northeast window, lower right corner brick/metal transition | ND |
| W-12-2019 | Admin building – Southwest corner office – West window, lower left corner brick/metal transition | ND |

µg/100 $cm^2$ = micrograms/100 square centimeters
ND = Not detected above reporting limits

**CONCLUSIONS**

Based on laboratory results of the surface wipe samples, no PCBs were found to exceed the EPA regulatory threshold.

Please do not hesitate to contact me if you have any questions regarding this letter report or require additional information.

Sincerely,

PBS Engineering and Environmental, Inc.



Digitally signed by Justin H. Day
Date: 2019.08.23 11:51:11
-07'00'

Justin Day
Industrial Hygiene Technician



Digitally signed by Gregg Middaugh
Date: 2019.08.23 12:32:18
-07'00'

Reviewed by: Gregg Middaugh
Senior Project Manager

Attachments: Sample location Diagrams
Surface Wipe Sample Laboratory Report




**ANNEX BUILDING**
NOT TO SCALE



①②③PHOTO DETAIL



②PHOTO DETAIL



①③PHOTO DETAIL

Air Testing Sample

W Wipe Test Sample

## GENERAL NOTES

1. ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN, LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN +/- 10%. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
2. REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY.
3. ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO: SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNERS REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS

## KEY NOTES

① REMOVE APPROX. 200 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR PERIMETER METAL WINDOW FRAME TRANSITIONS. THIS INCLUDES REMOVAL OF CAULKING WHICH EXISTS ON EXTERIOR METAL WINDOW FRAME TRANSITIONS ON THE NORTH AND SOUTH BUILDING ELEVATION WINDOWS AS SHOWN.

② REMOVE APPROX. 80 LF OF PCB-CONTAINING CAULKING ON WOOD CEILING/SOFFIT BEAMS AT PERIMETER WALL/CEILING TRANSITIONS IN ROOMS E, F AND PREP ROOM F AS SHOWN.

③ REMOVE APPROX. 300 LF OF PCB AND ASBESTOS-CONTAINING TAN CAULKING LOCATED ON VARIOUS VERTICAL AND HORIZONTAL METAL WINDOW FRAME TRANSITIONS ON THE NORTH AND SOUTH ELEVATIONS OF THE ANNEX BUILDING AS SHOWN.

## LEGEND

- VERTICAL CAULKING RUN
- CAULKING ON BEAM
- HORIZONTAL CAULKING RUN

NOT TO SCALE

MONROE SCHOOL DISTRICT

# ANNEX BUILDING CAULKING ABATEMENT PLAN

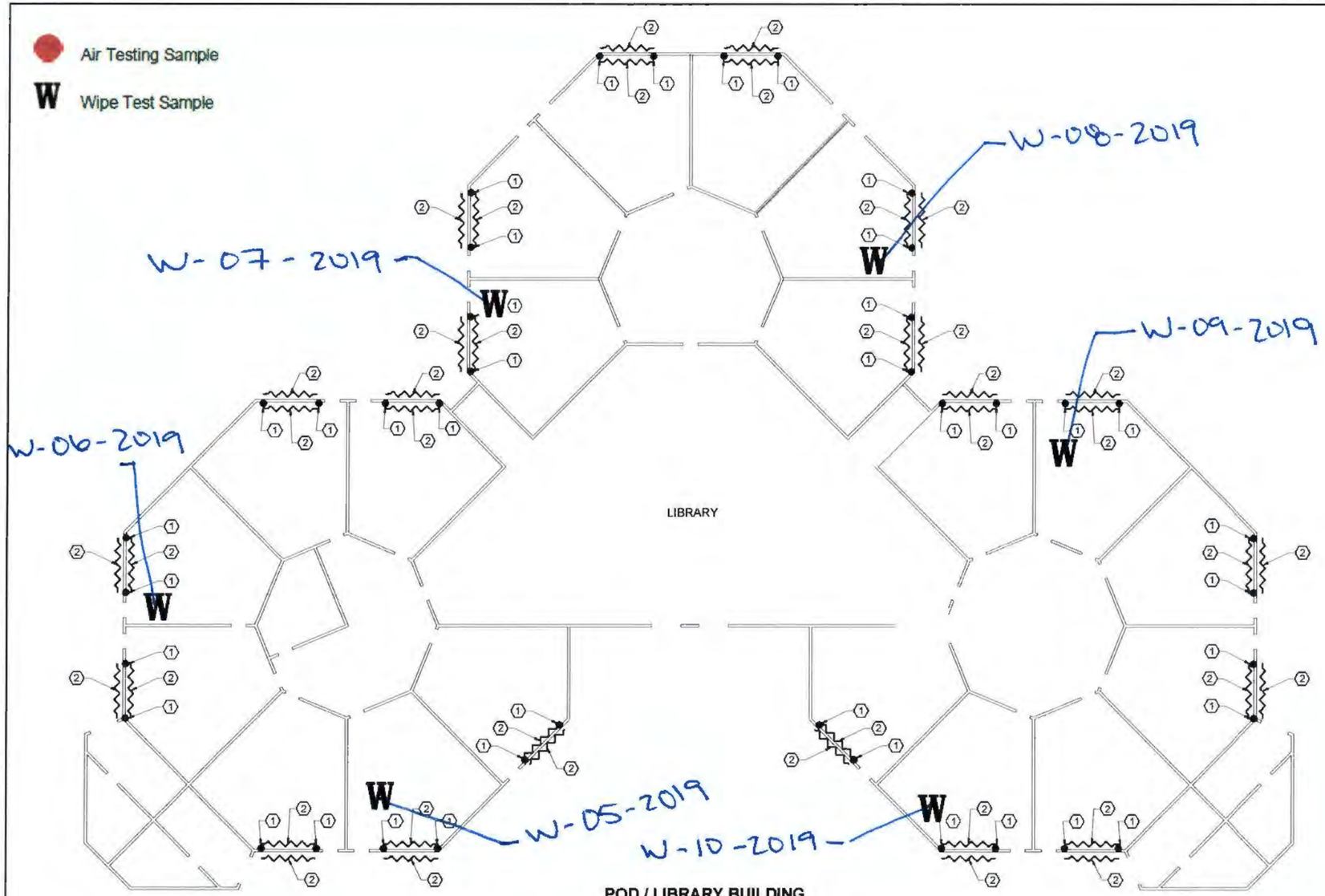
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

| | |
|---|---|
| PROJECT: | 41373.000 |
| DRAWN: | JHD |
| CHECKED: | GM |
| DATE: | JUNE 2016 |
| DWG NO. | HM4 |
| SHEET NO. | 4 OF 5 |

Air Testing Sample

W Wipe Test Sample




**POD / LIBRARY BUILDING**
NOT TO SCALE

## GENERAL NOTES

1. ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN, LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN +/- 10%. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
2. REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY
3. ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO: SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNERS REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

## KEY NOTES

① REMOVE APPROX. 500 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR PERIMETER METAL WINDOW FRAME TO BRICK TRANSITION VERTICALS IN EACH OF CLASSROOMS 1-20 AS SHOWN.

② REMOVE APPROX. 1,400 LF OF PCB-CONTAINING CAULKING ON THE INTERIOR AND EXTERIOR SIDES OF THE CEMENT ASBESTOS BOARD (CAB) WINDOW INFILL PANELS. THE CAULKING FILLS THE GAP BETWEEN THE METAL WINDOW FRAME AND CAB TRANSITION IN EACH OF CLASSROOMS 1-20 AS SHOWN.

## LEGEND

- VERTICAL CAULKING RUN
- HORIZONTAL CAULKING RUN



①PHOTO DETAIL



②PHOTO DETAIL



②PHOTO DETAIL

NOT TO SCALE

MONROE SCHOOL DISTRICT

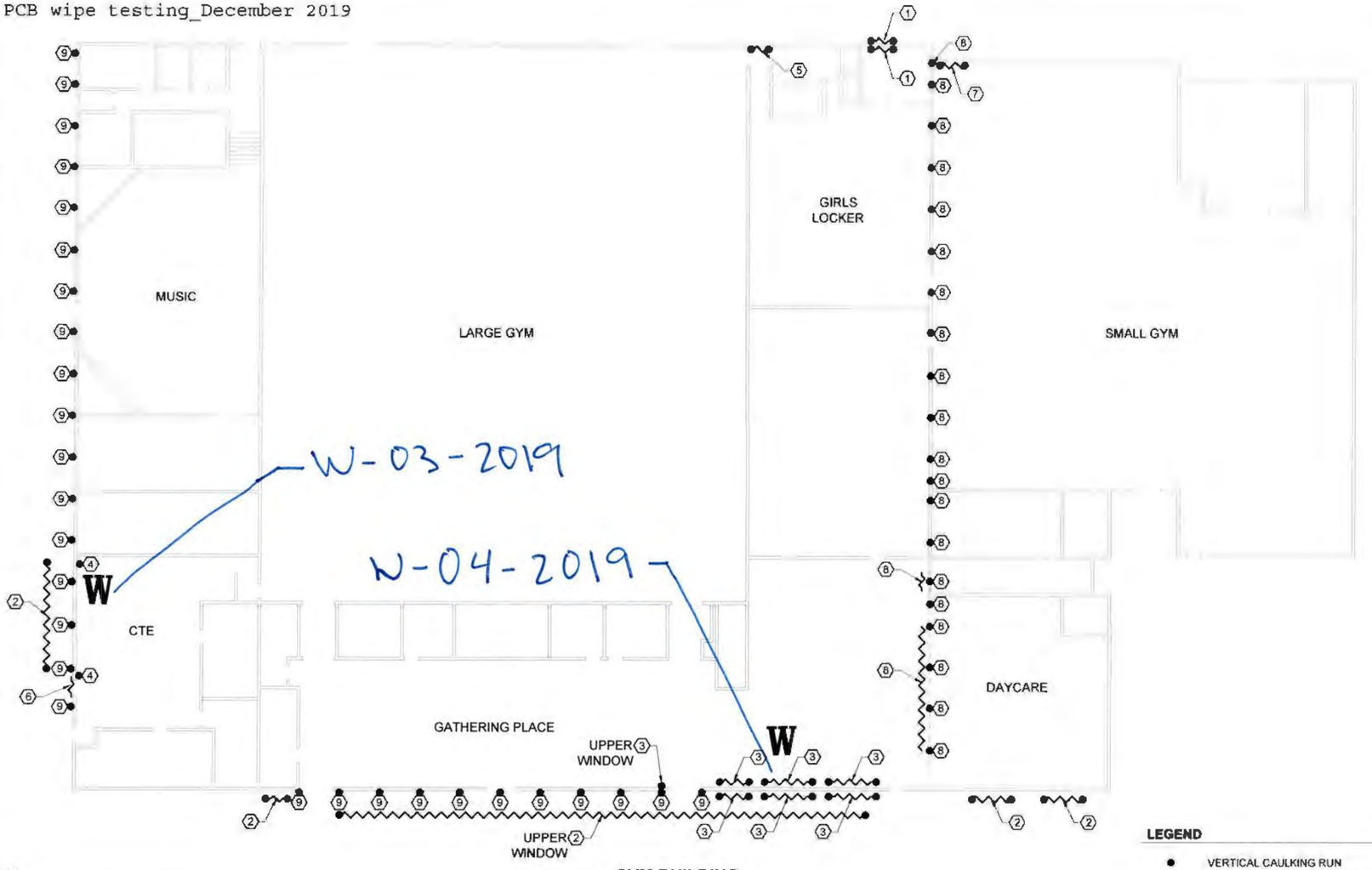
**POD/LIBRBAY BUILDING**
**CAULKING ABATEMENT PLAN**

**SKY VALLEY EDUCATIONAL CENTER**

**SKY VALLEY EDUCATIONAL CENTER**
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

| | |
|---|---|
| PROJECT: | 41373.000 |
| DRAWN: | JHD |
| CHECKED: | GM |
| DATE: | JUNE 2016 |
| DWG NO. | HM2 |
| SHEET NO. | 2 OF 5 |

PCB wipe testing_December 2019




**GYM BUILDING**
NOT TO SCALE

**W** Wipe Test Sample



②⑨PHOTO DETAIL



⑧PHOTO DETAIL



⑧PHOTO DETAIL

**LEGEND**

- VERTICAL CAULKING RUN
- HORIZONTAL CAULKING RUNS

## GENERAL NOTES

1. ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN, LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN +/- 10%. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
2. REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY.
3. ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO: SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNERS REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

## KEY NOTES

① REMOVE APPROX. 20 LF OF PCB-CONTAINING CAULKING LOCATED ON THE EXTERIOR AND INTERIOR METAL WINDOW FRAME ON THE GIRLS LOCKER ROOM NORTH PERIMETER WINDOW AS SHOWN

② REMOVE APPROX. 300 LF OF PCB-CONTAINING CAULKING ON THE EXTERIOR METAL WINDOW FRAMES ON ALL WINDOWS AT THE SOUTH AND WEST ELEVATIONS OF THE LARGE GYM BUILDING AS SHOWN. THIS INCLUDES CAULKING THAT EXISTS AROUND EACH WINDOW INFILL PANEL METAL FRAME TRANSITION ON THE WEST ELEVATION. THESE INFILL PANELS ARE CEMENT ASBESTOS BOARD.

③ REMOVE APPROX. 40 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR SIDE OF THE THREE LOWER WINDOWS AND THE UPPER WINDOW BANK EAST VERTICAL IN THE GATHERING PLACE AS SHOWN.

④ REMOVE APPROX. 10 LF OF PCB-CONTAINING OF CAULK ON INTERIOR WINDOW FRAME VERTICALS IN THE CTE ROOM AS SHOWN.

⑤ REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON INTERIOR SIDE OF NORTH EXTERIOR GIRLS LOCKER ENTRY DOOR AS SHOWN.

⑥ REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON EXTERIOR SIDE OF NORTH CTE ENTRY DOOR AS SHOWN.

⑦ REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON THE INTERIOR SIDE OF THE NORTHWEST PERIMETER ENTRY DOOR FRAME OF THE SMALL GYM AS SHOWN.

⑧ REMOVE APPROX. 500 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL VERTICAL STRUCTURAL METAL COLUMN TRANSITIONS THROUGHOUT THE EAST ELEVATION OF THE LARGE GYM AS SHOWN. THIS INCLUDES THE REMOVAL OF ALL CAULKING ON THE INTERIOR DEMISING WALL METAL BEAMS (VERTICAL AND HORIZONTAL) BETWEEN THE DAYCARE AND THE GATHERING PLACE/CAFETERIA AS SHOWN. THE CAULKING IS HEAVILY PAINTED THROUGHOUT THE WORK SCOPE AREA.

⑨ REMOVE APPROX. 780 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL EXTERIOR VERTICAL STRUCTURAL METAL COLUMN TRANSITIONS THROUGHOUT THE LOWER WEST AND SOUTH ELEVATIONS OF THE LARGE GYM BUILDING AS SHOWN.

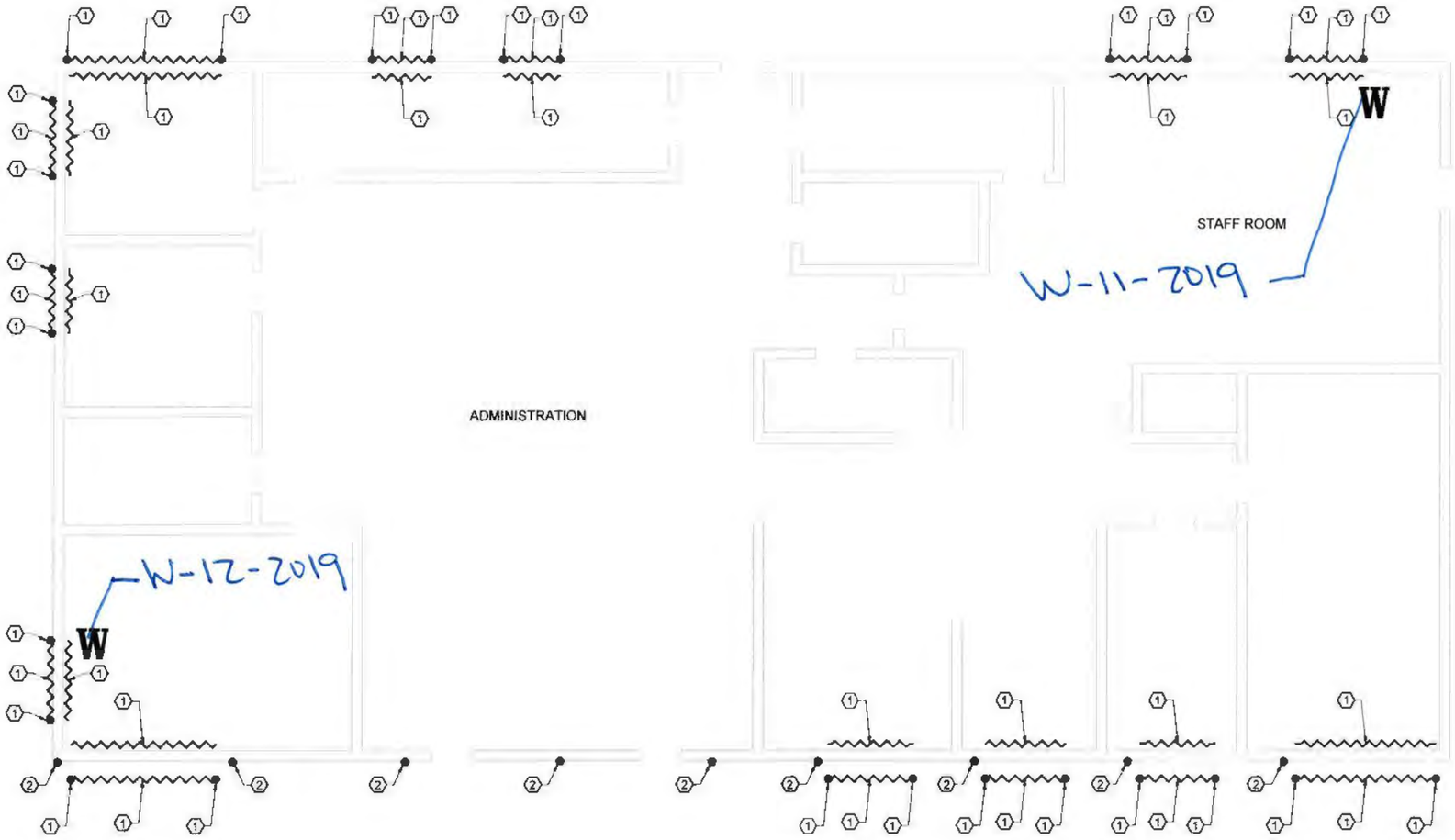
NOT TO SCALE

MONROE SCHOOL DISTRICT

GYM BUILDING
CAULKING ABATEMENT PLAN
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

| | |
|---|---|
| PROJECT: | 41373.000 |
| DRAWN: | JHD |
| CHECKED: | GM |
| DATE: | JUNE 2016 |
| DWG NO: | HM1 |
| SHEET NO. | 1 OF 5 |




**ADMIN BUILDING**
NOT TO SCALE



①PHOTO DETAIL



②PHOTO DETAIL

Air Testing Sample

W Wipe Test Sample

## GENERAL NOTES

1. ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN, LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN +/- 10%. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
2. REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY.
3. ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO: SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNERS REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

## KEY NOTES

① REMOVE APPROX. 400 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL INTERIOR METAL WINDOW SILL TRANSITIONS AND ALL EXTERIOR METAL WINDOW FRAME TRANSITIONS THROUGHOUT THE ADMINISTRATION BUILDING AS SHOWN.

② REMOVE APPROX. 175 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL EXTERIOR VERTICAL STRUCTURAL METAL BEAM TRANSITIONS THROUGHOUT THE ADMINISTRATION BUILDING AS SHOWN.

## LEGEND

- VERTICAL CAULKING RUN
- HORIZONTAL CAULKING RUN

NOT TO SCALE

MONROE SCHOOL DISTRICT

# ADMIN BUILDING CAULKING ABATEMENT PLAN

SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

| | |
|---|---|
| PROJECT: | 41373.000 |
| DRAWN: | JHD |
| CHECKED: | GM |
| DATE: | JUNE 2016 |
| DWG NO: | HM3 |
| SHEET NO: | 3 OF 5 |

# ANALYTICAL REPORT
## Amended-20190823

Report Date: August 23, 2019

Gregg Middaugh
PBS Engineering & Environmental
2517 Eastlake Ave. East
Suite 100
Seattle, WA 98102

Phone: (206) 233-9639
Fax: (206) 762-4780
E-mail: gregg.middaugh@pbsusa.com

Workorder: **34-1922943**
Project ID: SKy Valley/Monroe SD
Purchase Order: NA
Project Manager Stella Hanis

| Client Sample ID | Lab ID | Collect Date | Receive Date | Sampling Site |
|---|---|---|---|---|
| W-01-2019 | 1922943001 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-02-2019 | 1922943002 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-03-2019 | 1922943003 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-04-2019 | 1922943004 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-05-2019 | 1922943005 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-06-2019 | 1922943006 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-07-2019 | 1922943007 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-08-2019 | 1922943008 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-09-2019 | 1922943009 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-10-2019 | 1922943010 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-11-2019 | 1922943011 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-12-2019 | 1922943012 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-13-2019 | 1922943013 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |
| W-14-2019 | 1922943014 | 08/08/19 | 08/12/19 | Sky Valley/Monroe SD |

# ANALYTICAL REPORT
## Amended-20190823

**Workorder:** 34-1922943
**Client:** PBS Environmental
**Project Manager:** Stella Hanis

### Analytical Results

Sample ID: **W-01-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943001 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | **0.47** | **0.47** | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

Sample ID: **W-02-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943002 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | **0.30** | **0.30** | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

# ANALYTICAL REPORT
## Amended-20190823

**Workorder:** 34-1922943
**Client:** PBS Environmental
**Project Manager:** Stella Hanis

### Analytical Results

Sample ID: **W-03-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943003 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1262 | **3.3** | **3.3** | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

Sample ID: **W-04-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943004 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

# ANALYTICAL REPORT
## Amended-20190823

**Workorder:** 34-1922943
**Client:** PBS Environmental
**Project Manager:** Stella Hanis

### Analytical Results

Sample ID: **W-05-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943005 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

Sample ID: **W-06-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943006 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | **0.21** | **0.21** | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

# ANALYTICAL REPORT
## Amended-20190823

**Workorder:** 34-1922943
**Client:** PBS Environmental
**Project Manager:** Stella Hanis

### Analytical Results

Sample ID: **W-07-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943007 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | **0.29** | **0.29** | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

Sample ID: **W-08-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943008 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | **0.16** | **0.16** | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

# ANALYTICAL REPORT
## Amended-20190823

**Workorder:** 34-1922943
**Client:** PBS Environmental
**Project Manager:** Stella Hanis

### Analytical Results

Sample ID: **W-09-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943009 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | **1.0** | **1.0** | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

Sample ID: **W-10-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943010 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | **0.64** | **0.64** | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

# ANALYTICAL REPORT
## Amended-20190823

**Workorder:** 34-1922943
**Client:** PBS Environmental
**Project Manager:** Stella Hanis

### Analytical Results

Sample ID: **W-11-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943011 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

Sample ID: **W-12-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943012 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | <0.20 | 0.20 | 1 | |
| Aroclor 1232 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1016 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1242 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1248 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1254 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1260 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1262 | ND | <0.10 | 0.10 | 1 | |
| Aroclor 1268 | ND | <0.10 | 0.10 | 1 | |

# ANALYTICAL REPORT
## Amended-20190823

**Workorder:** 34-1922943
**Client:** PBS Environmental
**Project Manager:** Stella Hanis

### Analytical Results

Sample ID: **W-13-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943013 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: NA

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | NA | 0.20 | 1 | |
| Aroclor 1232 | ND | NA | 0.10 | 1 | |
| Aroclor 1016 | ND | NA | 0.10 | 1 | |
| Aroclor 1242 | ND | NA | 0.10 | 1 | |
| Aroclor 1248 | ND | NA | 0.10 | 1 | |
| Aroclor 1254 | ND | NA | 0.10 | 1 | |
| Aroclor 1260 | ND | NA | 0.10 | 1 | |
| Aroclor 1262 | ND | NA | 0.10 | 1 | |
| Aroclor 1268 | ND | NA | 0.10 | 1 | |

Sample ID: **W-14-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943014 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: NA

**Analysis Method - SW 8082**

| | | | | | |
|---|---|---|---|---|---|
| **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Weight/Volume** | **Analysis:** | SW 8082, Wipe | **Instrument ID:** GCE03 |
| **Batch:** | ENVX/29138 (HBN: 245505) | **Initial** 1 wipe | **Batch:** | EGC/7892 (HBN: 245748) | **%Solids:** NA |
| **Prepared:** | 08/13/2019 | **Final:** 10 mL | **Analyzed:** | 08/14/2019 00:00 | **Report Basis:** Wet |

| Analyte | Result (ug/sample) | Result (ug/100cm²) | RL (ug/sample) | Dilution | Qual |
|---|---|---|---|---|---|
| Aroclor 1221 | ND | NA | 0.20 | 1 | |
| Aroclor 1232 | ND | NA | 0.10 | 1 | |
| Aroclor 1016 | ND | NA | 0.10 | 1 | |
| Aroclor 1242 | ND | NA | 0.10 | 1 | |
| Aroclor 1248 | ND | NA | 0.10 | 1 | |
| Aroclor 1254 | ND | NA | 0.10 | 1 | |
| Aroclor 1260 | ND | NA | 0.10 | 1 | |
| Aroclor 1262 | ND | NA | 0.10 | 1 | |
| Aroclor 1268 | ND | NA | 0.10 | 1 | |

### Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

| Method | Analyst | Peer Review |
|---|---|---|
| **SW 8082** | /S/ Mila V. Potekhin<br>08/19/2019 14:54 | /S/ Matthew Roberts<br>08/20/2019 18:26 |

# ANALYTICAL REPORT
## Amended-20190823

**Workorder:** 34-1922943
**Client:** PBS Environmental
**Project Manager:** Stella Hanis

### Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsslc.com

### General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

| Testing Sector | Accreditation Body (Standard) | Certificate Number | Website |
|---|---|---|---|
| Environmental | PJLA (DoD ELAP) | L17-506 | http://www.pjlabs.com |
| | PJLA (ISO 17025) | L17-507-R1 | http://www.pjlabs.com |
| | Utah (TNI) | UT00953 | http://lams.nelac-institute.org/search |
| | Iowa (TNI) | IA# 376 | http://www.shl.uiowa.edu/labcert/idnr/ |
| | Kansas | E-10416 | http://www.kdheks.gov/envlab/disclaimer.html |
| Industrial Hygiene | AIHA (ISO 17025 & AIHA IHLAP) | 101574 | http://www.aihaaccreditedlabs.org |
| | DOECAP-AP | L18-606 | http://www.pjlabs.com |
| | Washington | C596 | https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Laboratory-Accreditation |
| Dietary Supplements | PJLA (ISO 17025) | L17-507-R1 | http://www.pjlabs.com |

### Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< Means this testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

### Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

# Quality Control Sample
# Batch Report

## Analysis Information

**Workorder:** 1922943

| | | | | | |
|---|---|---|---|---|---|
| **Limits:** | Method | **Preparation:** | EPA 3550, Sonic Ext, Wipe | **Analysis:** | SW 8082 |
| **Basis:** | ALS Laboratory Group | **Batch:** | ENVX/29138 (HBN: 245505) | **Batch:** | EGC/7892 (HBN: 245748) |
| | | **Prepared By:** | Matthew Roberts | **Analyzed By:** | Mila V. Potekhin |

## Blank

**MB:** 668102
**Analyzed:** 08/14/2019 00:00
**Units:** ug/sample

| Analyte | Result | MDL | RL |
|---|---|---|---|
| Aroclor 1221 | ND | NA | 0.200 |
| Aroclor 1232 | ND | NA | 0.100 |
| Aroclor 1016 | ND | NA | 0.100 |
| Aroclor 1242 | ND | NA | 0.100 |
| Aroclor 1248 | ND | NA | 0.100 |
| Aroclor 1254 | ND | NA | 0.100 |
| Aroclor 1260 | ND | NA | 0.100 |
| Aroclor 1262 | ND | NA | 0.100 |
| Aroclor 1268 | ND | NA | 0.100 |

## Laboratory Control Sample - Laboratory Control Sample Duplicate

**LCS:** 668103
**Analyzed:** 08/14/2019 00:00
**Dilution:** 1
**Units:** ug/sample

**LCSD:** 668104
**Analyzed:** 08/14/2019 00:00
**Dilution:** 1
**Units:** ug/sample

| Analyte | LCS Result | Target | % Rec | QC Limits | | LCSD Result | % Rec | RPD | QC Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1221 | 3.49 | 4.00 | 87.3 | 30.0 | 170.0 | 3.53 | 88.3 | 1.14 | 0.0 | 35.0 |
| Aroclor 1232 | 3.89 | 4.00 | 97.3 | 30.0 | 170.0 | 3.96 | 99.0 | 1.78 | 0.0 | 35.0 |
| Aroclor 1016 | 3.64 | 4.00 | 91.0 | 30.0 | 170.0 | 3.67 | 91.8 | 0.821 | 0.0 | 35.0 |
| Aroclor 1242 | 3.55 | 4.00 | 88.8 | 30.0 | 170.0 | 3.57 | 89.3 | 0.562 | 0.0 | 35.0 |
| Aroclor 1248 | 3.74 | 4.00 | 93.5 | 30.0 | 170.0 | 3.76 | 94.0 | 0.533 | 0.0 | 35.0 |
| Aroclor 1254 | 3.61 | 4.00 | 90.3 | 30.0 | 170.0 | 3.63 | 90.8 | 0.552 | 0.0 | 35.0 |
| Aroclor 1260 | 4.06 | 4.00 | 102 | 30.0 | 170.0 | 4.20 | 105 | 3.39 | 0.0 | 35.0 |
| Aroclor 1262 | 3.47 | 4.00 | * 86.8 | | | 3.46 | * 86.5 | 0.289 | 0.0 | 35.0 |
| Aroclor 1268 | 3.45 | 4.00 | 86.3 | 30.0 | 170.0 | 3.43 | 85.8 | 0.581 | 0.0 | 35.0 |

## QC Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

| Analyst | Peer Review |
|---|---|
| /S/ Mila V. Potekhin | /S/ Matthew Roberts |
| 08/19/2019 14:54 | 08/20/2019 18:26 |

## Symbols and Definitions

* - Analyte above reporting limit or outside of control limits
▲ - Sample result is greater than 4 times the spike added
● - Sample and Matrix Duplicate less than 5 times the reporting limit
● - Result is above the calibration range
# - The Matrix Spike, Matrix Spike duplicate or Matrix Duplicate is reported for your information only. The sample matrix may be inappropriate for the method selected.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable